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<p>(21) International Application Number: PCT/US98/14529</p> <p>(22) International Filing Date: 14 July 1998 (14.07.98)</p> <p>(30) Priority Data: 97305227.7 15 July 1997 (15.07.97) EP</p> <p>(71) Applicants (<i>for all designated States except US</i>): GENENCOR INTERNATIONAL, INC. [US/US]; 4 Cambridge Place, 1870 South Winton Road, Rochester, NY 14618 (US). GENENCOR INTERNATIONAL B.V. [NL/NL]; Verrijn Stuartlaan 1, NL-2288 EK Rijswijk (NL).</p> <p>(72) Inventor; and</p> <p>(75) Inventor/Applicant (<i>for US only</i>): ESTELL, David, A. [US/US]; 248 Woodbridge Circle, San Mateo, CA 94403 (US).</p> <p>(74) Agent: GLAISTER, Debra, J.; Genencor International, Inc., 925 Page Mill Road, Palo Alto, CA 94304-1013 (US).</p>		<p>(81) Designated States: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).</p> <p>Published <i>Without international search report and to be republished upon receipt of that report.</i></p>	
<p>(54) Title: PROTEASES FROM GRAM-POSITIVE ORGANISMS</p> <p>(57) Abstract</p> <p>The present invention relates to the identification of novel cysteine proteases in Gram-positive microorganisms. The present invention provides the nucleic acid and amino acid sequences for the <i>Bacillus subtilis</i> cysteine proteases CP1, CP2 and CP3. The present invention also provides host cells having a mutation or deletion of part or all of the gene encoding CP1, CP2 or CP3. The present invention also provides host cells further comprising nucleic acid encoding desired heterologous proteins such as enzymes. The present invention also provides a cleaning composition comprising a cysteine protease of the present invention.</p> <p style="text-align: center;"><i>ABSTRACT</i></p>			